UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

MEMORANDUM

JUN 02 1995

Date:

Subject: Work Assignment Manager (WAM) Designation

From: Brigitte Manzke
Contracting Officer

To: Sheri Bianchin
Environmental Engineer

I have approved your nomination as a Work Assignment Manager for Work Assignment No. 80-5J7P American Chemical Services for remedial design/action oversight under ARCS Contract No. 68-W8-0064. Please keep a copy of this form in your work assignment files.

If you have any questions regarding the attached, associated responsibilities, the contract statement of work, contract clauses, anything relating to the work under the ARCS contract, please contact me at (312) 886-6581.

EPA

United States
Environmental Protection Agency
Washington, DC 20460

NOMINATION AND APPOINTMENT OF THE CONTRACTING OFFICER'S REPRESENTATIVE (COR)

1.a. Name of Nominee:	b. Title, Series, and Grade
Sheri Bianchin	RPM, Environmental Engineer, GS-13
c. Mailing Address (*include mail code*):	d. Telephone:
Mail Code: HSR-6J 77 West Jackson Blvd Chicago, IL 60604	(312) 886-4745

2. The nomination is for:	3. Training completed:	Date Completed
___ Project Officer ___ Deputy Project Officer ___ Regional Project Officer ___ Zone Project Officer ___ Delivery Order Project Officer X Work Assignment Manager ___ Alternate _____ ___ Other _____	a. Acquisition Training for Project Officers (Formally The Basic Project Officer Course) (All Project Officers must complete.)	_____
	b. Contract Administration Course (All CORs must complete.)	3-5-90
	c. Recertification Course (All CORs must complete every three years.)	1994

4. Briefly describe the nominee's contract management experience and nominee's technical expertise in the subject matter of the contract:

10 years of contract management experience, and 6 years of project Management experience for remedial work.

5. The nomination is for contract number 68-W8-0064 American Chemical Services RD/RA Oversight

6. I understand that COR duties are not redelegable. In the event that I am unable to continue performing my COR duties, I will contact the Contracting Officer immediately.

Signature of Nominee _____ Date 5-9-95

7. I certify that:
a. The nominee's contract management duties will be incorporated in his/her position description and performance standard.
b. The nominee's Standard Form 450, Confidential Financial Disclosure Report, will be filed with the cognizant Deputy Ethics Official.
c. The nominee's contract management workload will stay within his/her ability to perform satisfactorily.
d. If the nominee performs his/her contract management functions unsatisfactorily, I will notify the Contracting Officer immediately.

Signature of the Nominating Official _____ Date 5/9/95

Margaret Guerriero, Section Chief
Name/Title (*Print or type*)

6-0319
Telephone

Signature of the Appointing Official Brigitte Manzee
(*Contracting Officer*) Date 6/2/95

EPA Form 1900-65A (Rev. 7-94) Electronic and Paper versions acceptable.
Previous editions obsolete.

WORK ASSIGNMENT

DISTRIBUTION SHEET

Contract No.: 68-W8-0064 Date of Distribution:_____

Work Assignment No.: 80- ~~5314~~ 5PJ7

Revision No.: Initial

Contractor:

B&V Waste Science and Technology Corp.
101 N. Wacker Drive
Suite 1100
Chicago, IL 60606

NO.	COPY	ADDRESSEE	
2	Original	Contractor	X
1	Copy	Contract File	X
1	Copy	Project Officer: Carl Norman, 5HSM-12	X
1	Copy	Project Manager: Sheri Bracken	X

USEPA DUPLICATE **WORK ASSIGNMENT FORM**

1. WORK ASSIGNMENT INFORMATION

Project Name: American Chemical Services Contractor: BVWS Work Assignment No.: 80-5PJ7

Activity: Remedial Design/Action Oversight EPA Contract No.: 68-W8-0064 Revision No.: Initial

Date: 5/24/95 Contractor Control No.: _____ Modification No. 137
(Contracting Officer Use Only)

2. DESCRIPTION OF ACTION

[X] New Work Assignment	[ ] Interim Amendment	[ ] Partial Work Plan Approval [ ] Final Work Plan Approval	[ ] Technical Direction Memorandum	[ ] Work Assignment Completion Notification (No Attachment)
. Interim SOW, schedule, and LOE . Complete SOW, estimated budget and schedule	. Change in LOE, Scope by task . Add additional tasks or funds [ ] Incremental Funding	. Approval of work plan . Add funds [ ] Amendment to Final Work Plan Approval . Change in LOE, scope of budget by task . Add additional tasks or funds	. Detailed scope, budget and schedule . Revise expenditure level . Minor shift within SOW (All changes must be with overall scope, budget and LOE approved by EPA CO)	. Contractor originates . Regional determination . When signed by CO, this constitutes a stop work order

3. BUDGET INFORMATION

	Total Funding received ($)*	Interim Budget (IB) Technical LOE	Interim Budget (IB) ($)*	Approved Work Plan Budget Technical LOE	Approved Work Plan Budget ($)*	Expenditure Limit (EL)* Technical LOE	Expenditure Limit (EL)* ($)*
Current	0	0	0	0	0	0	0
This Action	250,000	200	15,000	0	0	200	15,000
Total	250,000	200	15,000	0	0	200	15,000
	* Includes fees		* Includes fees		* Includes fees		* Established by WAM/PO

4. WA COMPLETION DATE Current: December 1996 Revised: _____

5. EPA COMMENTS:

The contractor shall prepare a work plan based on the attached statement of work. The contractor is authorized to initiate tasks 1 and 2. In addition the contractor is authorized to attend a meeting currently scheduled for June 14, 1995. Contractor shall contact Work Assignment Manager upon acceptance of work assignment to arrange for receipt of background information. The Project Officer shall be contacted to arrange for a kickoff meeting.

6. APPROVALS

Contractor Signatures:

_____ _____
Site Manager/Firm Date

_____ _____
Regional Manager/Firm Date

EPA Signatures:

Sheri F. Bianchin 5/25/95
Work Assignment Manager, Sheri Bianchin Date

Phone (312) 886-4745

Carl D. Norman 5/25/95
Project Officer, Carl D. Norman Date

[✓] Approved As Submitted [ ] Approved With Changes [ ] Not Approved

Brigitte Manzke 6/2/95
Signature of Contracting Officer, Brigitte Manzke Date Approved

cc: 1. EPA PO 2. WAM 3. EPA CO

SCOPE OF WORK
REMEDIAL DESIGN AND REMEDIAL ACTION OVERSIGHT
AMERICAN CHEMICAL SERVICES
GRIFFITH, INDIANA

PURPOSE

The purpose of this work assignment is for the United States Environmental Protection Agency (U.S. EPA) to obtain contractor support for oversight assistance. The purpose of this statement of work (SOW) is to define the requested assistance for oversight of the remedial design work and a limited portion of the expedited remedial action (RA) at the ACS Superfund Site (the ACS Site). Implementation of RD and RA shall be performed by the Respondents (i.e., which is a subgroup of all of the Potentially Responsible Parties - PRPs).

The primary objective of contractor oversight is to evaluate whether the design will comply with the Consent Order, Statement of Work, Record of Decision (ROD) and Unilateral Administrative Order (UAO), the designing documents, and with USEPA decisions, regulations, policy, and procedures for the Remedial Pre-design, Design (hereafter referred to as RD) and limited portions of the expedited RA (ERA).

This oversight assistance shall include technical review of plans and specifications, oversight of any field activities, split-sampling, and participation in technical meetings.

BACKGROUND

II. DESCRIPTION OF THE SITE, REMEDIAL ACTION, AND PERFORMANCE STANDARDS

The American Chemical Services Site ("ACS or the Site") is located in Griffith, Indiana. Developed land around the Site is used for single family residences and industrial purposes.

The Site is located at and near 420 S. Colfax Ave., Griffith, Indiana, and includes the ACS property (19 acres), Pazmey Corp. property (formerly Kapica Drum Inc, now owned by Darija Djurovic; two acres) and the inactive portion of the Griffith Municipal Landfill (approximately 15 acres).

ACS began operations in 1955 as a solvent recovery firm and later was involved in chemical manufacturing which operated for a limited time as a RCRA facility but then lost its permit. ACS ceased solvent reclaiming activities in 1990 after losing interim status under RCRA. ACS currently operates as a chemical manufacturer. Several areas of the property were used for disposal of hazardous wastes. The

Griffith Municipal Landfill has been active since the 1950's.

A Record of Decision (ROD) was issued by U.S. EPA on September 30, 1992.

The major components of the selected remedy include:

1. Groundwater pumping and treatment system to dewater the Site and to contain the contaminant plume with subsequent discharge of the treated groundwater to surface water and wetlands;

2. Fencing the Site and implementation of deed and access restrictions and deed notices;

3. In-situ vapor extraction pilot study of buried waste in the On-site Area;

4. Excavation of approximately 400 drums in the On-site Containment Area for offsite incineration;

5. Excavation of buried waste materials/Source Areas (as defined in the ROD and this SOW) and treatment by low-temperature thermal treatment (LTTT). Treatment residuals meeting performance standards will be re-deposited on-site;

6. On-site treatment or off-site disposal of treatment condensate;

7. Vapor emission control during excavation and possible immobilization of inorganic contaminants after LTTT;

8. Off-site disposal of miscellaneous debris;

9. In-situ vapor extraction of contaminated soils;

10. Continued evaluation and monitoring of wetlands and, if necessary, remediation;

11. Long term groundwater monitoring; and

12. Private well sampling with possible well closures or groundwater use advisories.

Since U.S. EPA was unable to secure a voluntary settlement with the Potentially Responsible Parties (PRPs), U.S. EPA issued an Unilateral Administrative Order (UAO) for RD/RA on September 30, 1994, to 18 of the major PRPs (Respondents). At this time, the PRPs have indicated that their intention is to comply with the terms of the UAO.

The contractor shall conduct the RD/ERA Oversight in accordance with this Statement of Work (SOW) and to ensure consistency with the ROD, the UAO, the Remedial Design and Remedial Action Handbook (DRAFT) (U.S. EPA Office of Solid Waste and Emergency Response Directive, August 1993) and all other guidance used by EPA in conducting an RD/RA. See references listed in Attachment 2.

The list of major contractor deliverables are included as an attachment to this SOW. See Attachment 1. In essence, the Respondents are required to design and implement the Remedial Action to meet the remediation levels (performance standards) and specifications set forth in the ROD, Unilateral Administrative Order (UAO), and the SOW attached to the UAO.

Based upon a request from U.S. EPA, the PRPs have proposed to expedite several of the remedial activities which include the installation of the fence, installation of the pump and treat system in the upper aquifer, and the treatability studies.

A chart showing deliverables and time schedules for the proposed revised approach is included as Attachment 2 hereto;

In summary, contractor oversight is needed to assist in reviewing the remedial design for the entire project and oversight is needed for several portions of the expedited remedial action.

TASK DESCRIPTIONS

Oversight assistance shall include the following tasks:

Task 1	-	Project Planning & Preparation of Oversight Work Plan
Task 2	-	Background Review
Task 3	-	Review of Technical Plans and Reports
Task 4	-	Meetings
Task 5	-	Field Oversight during RD and ERA
Task 6	-	Field Oversight during ERA
Task 7	-	Field Oversight during RA
Task 8	-	Enforcement Support
Task 9	-	Community Relations Technical Support
Task 10	-	Project Management

Task 1 - Project Planning and Preparation of Oversight Work Plan

The contractor shall develop and submit a RD/ERA Oversight Work Plan within 30 calendar days, after receipt of the work

assignment (WA). A description of the RD/ERA work and the anticipated deliverables from the Respondents can be found in the ROD and the UAO Statement of Work.

(a) Develop Narrative. The RD/ERA Oversight Work Plan shall include a comprehensive description of project tasks, the procedures to accomplish them, quality assurance/quality control (QA/QC) systems and project-specific QA/QC procedures to be followed, project documentation, and project schedule. Specifically, the Work Plan shall include the following:

(1) Identification of RD project elements and the associated oversight tasking including review of PRP planning, design, and activity reporting documentation; field sampling and analysis activities, and treatability study activities. Output of this task will be a detailed work breakdown structure of the RD oversight project.

(2) The contractor's technical approach to each task to be performed, including a detailed description of each task; the assumptions used; the information needed for each task; any information to be produced during and at the conclusion of each task; and a description of the work products that will be submitted to EPA.

(3) A schedule with specific dates for completion of each required activity and submission of each deliverable required by this SOW. This schedule shall also include information regarding timing, initiation, and completion of all critical path milestones for each activity and deliverable and the expected review time for EPA.

(4) The Work Plan shall provide for, and contain adequate professional hours for, preparing a Health & Safety Plan (HSP) and a Quality Assurance Project Plan (QAPP), including a Field Sampling Plan (FSP), for any splits or duplicates of the Respondents' samples. The Health and Safety Plan will address health and safety for remedial oversight activities to be performed at the Site by contractor personnel and submit a copy to USEPA for review. The QAPP will address quality assurance/quality control for any collocated sampling which the contractor shall conduct during the remedial design. The contractor shall submit a copy of the QAPP to USEPA for review. The QAPP shall be based on the Region 5 model Mini-QAPP. Actual preparation of the HSP or the QAPP will be initiated upon direction from the U.S. EPA.

(5) The names and phone numbers of key personnel working on this project shall be provided, with a brief descsription of each individuals responsibility cited.

(b) Develop Cost Breakout. The contractor shall prepare a cost breakout by task, a breakout of direct costs as required by the contract.

Task 2 - Background Review

During the project planning stage the contractor shall conduct a 1-day site visit with the EPA RPM to develop a conceptual understanding of the site and the RD scope and requirements. In addition, the contractor shall evaluate existing information. The contractor shall obtain, copy, and review available information pertaining to the site from EPA.

As an initial activity the following documents, at a minimum, shall be reviewed by the contractor:

- Remedial Investigation/Feasibility Study (RI/FS) including supplemental reports
- Record of Decision (ROD) and Responsiveness Summary
- Remedial Design/Remedial Action Unilateral Order including all attachments.

Task 3 - Review of Technical Plans and Reports

The contractor shall review the RD/ERA plans and technical reports submitted by the Respondents for U.S. EPA approval. The contractor shall assign review staff with reasonable experience and training in the field of that portion of the document(s) that they are reviewing.

The contractor shall contact EPA to understand the scope of the review desired prior to starting the review. To the maximum extent practicable, these staff shall review all subsequent design documents to promote consistency in the comments which the Agency will transmit to the Respondents.

The plans and reports shall be reviewed to ensure professional quality, technical accuracy, compliance with the Respondents' RD/RA Work Plan, the ROD and Consent Decree, CERCLA, and all ARARs. Specific documents include:

(a) The contractor shall review the Respondents' RD/RA Work Plans including QAPP, CQAPP, HASP, FSP, and special project requirements (e.g., Treatability Studies);
The contractor shall review interim results deliverables (e.g., treatability study work results);

(b) The contractor shall review operations and maintenance manuals for remediation systems;

(c) The contractor shall review preliminary design documents for the 1) groundwater and fencing; 2) low temperature thermal treatment unit and 3) soil vapor extraction. The review shall focus on the project delivery strategy and scheduling; preliminary construction schedule; specifications outline; preliminary drawings; basis of design report/design analysis; preliminary cost estimate; Respondents' description of variances with ROD; and Respondents' response to design review comments.

(d) The contractor shall review (Respondents' Remedial) intermediate design documents for the 1) groundwater and fencing; 2) low temperature thermal treatment unit and 3) soil vapor extraction. The review shall focus on the following: construction schedule; preliminary specifications; intermediate drawings; basis of Design Report/Design Analysis; Revised Cost Estimate; Respondents' description of variances with ROD; and Respondents' response to design review comments.

(e) The contractor shall review prefinal/final design documents for the 1) groundwater and fencing; 2) low temperature thermal treatment unit and 3) soil vapor extraction. The review shall focus on the following; prefinal design specifications; prefinal drawings basis of design report/design analysis; revised cost estimate final design submittal; review of subcontract award document(s); biddability (offerability) and constructability reviews; and revised project delivery strategy.

(f) The contractor shall budget for the review of three treatability study reports.

The focus of these reviews shall be on technical and engineering merit, and compliance with the ROD, UAO, including the Scope of Work, ARARs and/or any plans or reports approved to date, applicable statutes, EPA policies, directives and regulations. Also, the contractor shall spot check design calculations to assess accuracy and quality of design activities; and examine planning and construction schedules for meeting project completion goals.

Reviews shall be presented in major comments and minor comments. Written reports documenting the results of these reviews shall be provided to U.S. EPA.

Except as directed by the RPM, review of revised documents shall

focus on the adequacy with which comments on the previous draft were incorporated into the revision.

Letter reports will be submitted upon the completion of each review by the oversight contractor within 21 calendar days of receipt of the document.

All comments shall be provided to the RPM in hard copy and electronic format (WordPerfect 5.1) on a 3 1/2 inch disk.

Task 4 - Meetings

This task includes work efforts related to attendance at and documentation of meetings with EPA, Respondents, the Respondents' contractor, and the State Agency. When required, the contractor shall attend meetings and provide documentation of meeting results. Contractor personnel at these meetings shall be highly experienced in the issues under discussion. Preferably, they shall be the personnel performing the document reviews. The contractor shall be available by telephone to discuss review comments or any outstanding issues.

When required, a report summarizing the meeting results shall be submitted within 10 days after a meeting. For budgeting purposes, the contractor shall assume 2 people for 4 full-day meetings, and 1 person for three full-day meetings; all meetings shall be in Chicago.

Task 5 - Field Oversight during the Remedial Design

The Contractor shall provide personnel for on-site monitoring of the pre-design investigation and any field activities required during the RD/ERA. The personnel provided must be able to make competent observations as to whether any deviations from approved procedures are technically appropriate and adequate for the situation. At least one person shall be on-site for of all field activities, except as directed by the RPM (assume three months). For simultaneous field work and task 6 (see below) the contractor shall assume a 2nd person shall be on site 50% of the time. On-site personnel shall have the appropriate experience to monitor the field activity being performed.

Any significant deviation by the Respondents from the U.S. EPA approved plans will be reported immediately to the U.S. EPA Remedial Project Manager (RPM). In addition, any accidents or

on-site emergencies or any significant delays or problems arising during field activities shall be reported immediately to the RPM. The contractor shall maintain a daily log of during field oversight which documents on-site activities. Both verbal and written reports on all field activities shall be submitted to the RPM. Verbal reports shall be on an as needed basis, while written reports shall be submitted bi-monthly. In addition, a succinct visual record of all field activities shall be submitted to the RPM.

The contractor shall prepare a letter report that documents all EPA, contractor, and site personnel present at the visit; all decisions made during the visit; any action items assigned, including person responsible and due date; any unusual occurrences during the visit; and any portions of the site that were not accessible to the contractor and the impact of this on oversight of the remedial design. This report shall be submitted to the RPM within 10 calendar days of the site visit.

For planning purposes, assume approximately three months of field oversight will be necessary during the remedial design.

The contractor shall collect a percentage of split samples for analysis during RD. Split sampling is required for comparison with the Respondents' data. All sampling shall be in accordance with the EPA-approved FSP and QAPP developed in Task 1.

When conducting oversight, the contractor shall evaluate whether the Respondents are properly managing samples by the Respondents, including accurate chain-of-custody procedures for sample tracking, protective sample-packing techniques, and proper sample-preservation techniques. In addition, the contractor shall evaluate whether Respondents characterize and dispose of investigation-derived wastes in accordance with local, State and Federal regulations as specified in the FSP (see the Fact Sheet Guide to Management of Investigation-Derived Wastes, 9345.3-03FS, January 1992).

The contractor shall conduct perform oversight of Respondents during the geological investigations (soils and sediments); hydrogeological investigations ground water and surface water; waste investigation oversight; ecological investigation; disposal of investigation-derived waste; and prepare data acquisition reports.

For analysis of the split samples, the contractor shall request CLP analytical services in accordance with procedures outlined in the User's Guide to the Contract Laboratory Program, EPA, December 1986.

The contractor shall arrange for the analysis of environmental split samples collected. The sample analysis task begins with reserving sample slots in the CLP and the completion of the RD field sampling program. The contractor shall perform the following activities or combination of activities to analyze and validate test results:

(a) Coordinate With Appropriate Sample Management Personnel

(b) Implement EPA-Approved Laboratory QA Program

(c) Provide Sample Management (chain of custody, sample retention, and data storage)

Lastly, the contractor shall develop a data evaluation report. The contractor shall evaluate and present results in a Data Evaluation Summary Report to submit to the WAM/RPM for review and approval. The report will include a comparison of the split sample data collected with Respondents' data, data validation. After the WAM/RPM's review, attend a meeting with EPA to discuss data evaluation results and next steps.

Task 6 - Field Oversight during the Expedited Remedial Action

The contractor shall provide oversight during expedited portions of the RA. All oversight activities shall be in accordance with task 5, Field Oversight during the Remedial Design. Field work for this task will be concurrent with the RD field work. As outlined above, the contractor shall budget 1 person for three months and a 2nd person for 1.5 months of oversight for both tasks 5 & 6.

Task 7 - Field Oversight during the Remedial Action

When directed by the Contracting Officer, the contractor shall submit a work plan amendment outlining the LOE and costs to perform the oversight of the RA.

Task 8 - Enforcement Support

The contractor shall provide technical support to U.S. EPA staff during negotiations with the Respondents for a Consent Decree for dispersing de minimis funds to conduct the Remedial Action. The contractor shall provide technical input to the RPM on an as-needed basis, primarily regarding issues of implementing the design. The contractor shall budget 100 LOE for this task.

Task 9 - Community Relations Technical Support

This task includes providing technical community relations support at meetings/availability sessions to the U.S. EPA. The contractor shall assume three public meetings/availability sessions at the ASC site.

Task 10 - Project Management

The Contractor shall perform the project management of this work assignment. This task includes, but is not limited to, day-to-day management of the project, coordinating team members, scheduling, budgeting, staffing the appropriate team members, coordinating with U.S. EPA, and preparing for project closeout. Overall project status reports shall be submitted on a monthly basis. For budgeting purposes, the contractor shall assume a work assignment completion date of December 1996.

CONTRACTOR EXPERTISE REQUIRED

The Contractor shall provide, at a minimum, personnel experienced in the design and implementation of the following technologies:

- Groundwater Pump and Treat System
- Hydrogeology
- Solid Waste Landfill Caps and Landfill Gas Collection.
- Engineering Specifications for Soil Vapor Extraction and Low Temperature Thermal Treatment
- Risk Assessment
- Slurry Walls

A copy of the proposed project team's experience shall be submitted with the Work Plan.

TRAVEL REQUIREMENTS

The contractor shall plan travel for seven meetings in the EPA Region 5 offices, and for field oversight personnel to be on-site during pre-design and ERA investigations. Travel for field oversight shall be based on schedules included in the approved pre-design Work Plan.

PERIOD OF PERFORMANCE

This work assignment is expected to be completed by December 31, 1996.

PRIMARY U.S. EPA CONTACT

The primary contact for the ACS site is Sheri L. Bianchin; She may be reached at U.S. EPA (HSR-6J), 77 West Jackson Boulevard, Chicago, Illinois 60604, telephone: (312) 886-4745.

Attachment 1

DELIVERABLES

The deliverables under this scope of work are as follows:

Submittal	Due Date
Oversight Work Plan including QAPP, HASP, and FSP	Per contract
Comments on Pre-Design WP	21 days after receipt by contractor
Comments on design documents	21 days after receipt by contractor
Comments on miscellaneous deliverables	21 days after receipt by contractor
Field Reports	Bi-monthly
Monthly Progress Reports	By the 20th of each month
Verbal Weekly Progress Updates	Weekly
Data Evaluation Summary Report	21 days after data receipt

Attachment 3

Regulations and Guidance Documents

The following list, although not comprehensive, comprises many of the regulations and guidance documents that apply to the RD process:

1. American National Standards Practices for Respiratory Protection. American National Standards Institute Z88.2-1980, March 11, 1981.

2. ARCS Construction Contract Modification Procedures September 89, OERR Directive 9355.5-01/FS.

3. CERCLA Compliance with Other Laws Manual, Two Volumes, U.S. EPA, Office of Emergency and Remedial Response, August 1988 (DRAFT), OSWER Directive No. 9234.1-01 and -02.

4. Community Relations in Superfund ■ A Handbook, U.S. EPA, Office of Emergency and Remedial Response, June 1988, OSWER Directive No. 9230.0-3B.

5. A Compendium of Superfund Field Operations Methods, Two Volumes, U.S. EPA, Office of Emergency and Remedial Response, EPA/540/P-87/001a, August 1987, OSWER Directive No. 9355.0-14.

6. Construction Quality Assurance for Hazardous Waste Land Disposal Facilities, U.S. EPA, Office of Solid Waste and Emergency Response, October 1986, OSWER Directive No. 9472.003.

7. Contractor Requirements for the Control and Security of RCRA Confidential Business Information, March 1984.

8. Data Quality Objectives for Remedial Response Activities, U.S. EPA, Office of Emergency and Remedial Response and Office of Waste Programs Enforcement, EPA/540/G-87/003, March 1987, OSWER Directive No. 9335.0-7B.

9. Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual, U.S. EPA Region IV, Environmental Services Division, April 1, 1986 (revised periodically).

10. EPA NEIC Policies and Procedures Manual, EPA-330/9-78-001-R, May 1978, revised November 1984.

11. Federal Acquisition Regulation, Washington, DC: U.S. Government Printing Office (revised periodically).

12. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA, Interim Final, U.S. EPA, Office of Emergency and Remedial Response, October 1988, OSWER Directive NO. 9355.3-01.

13. Guidance on EPA Oversight of Remedial Designs and Remedial Actions Performed by Potential Responsible Parties, U.S. EPA Office of Emergency and Remedial Response, EPA/540/G-90/001, April 1990.

14. Guidance on Expediting Remedial Design and Remedial Actions, EPA/540/G-90/006, August 1990.

15. Guidance on Remedial Actions for Contaminated Ground Water at Superfund Sites, U.S. EPA Office of Emergency and Remedial Response (DRAFT), OSWER Directive No. 9283.1-2.

16. Guide for Conducting Treatability Studies Under CERCLA, U.S. EPA, Office of Emergency and Remedial Response, Prepublication version.

17. Guide to Management of Investigation-Derived Wastes, U.S. EPA, Office of Solid Waste and Emergency Response, Publication 9345.3-03FS, January 1992.

18. Guidelines and Specifications for Preparing Quality Assurance Project Plans, U.S. EPA, Office of Research and Development, Cincinnati, OH, QAMS-004/80, December 29, 1980.

19. Health and Safety Requirements of Employees Employed in Field Activities, U.S. EPA, Office of Emergency and Remedial Response, July 12, 1982, EPA Order No. 1440.2.

20. Interim Guidance on Compliance with Applicable of Relevant and Appropriate Requirements, U.S. EPA, Office of Emergency and Remedial Response, July 9, 1987, OSWER Directive No. 9234.0-05.

21. Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans, U.S. EPA, Office of Emergency and Remedial Response, QAMS-005/80, December 1980.

22. Methods for Evaluating the Attainment of Cleanup Standards: Vol. 1, Soils and Solid Media, February 1989, EPA 23/02-89-042; vol. 2, Ground water (Jul 1992).

23. National Oil and Hazardous Substances Pollution Contingency Plan; Final Rule, Federal Register 40 CFR Part 300, March 8, 1990.

24. NIOSH Manual of Analytical Methods, 2nd edition. Volumes I-VII for the 3rd edition, Volumes I and II, National Institute of Occupational Safety and Health.

25. Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, National Institute of Occupational Safety and Health/Occupational Health and Safety Administration/United States Coast Guard/Environmental Protection Agency, October 1985.

26. _____ OSWER Directive No. 9355.7-02, May 23, 1991. [Guidance, p. 3-5]

27. _____ OSWER Directive No. 9242.3-08, December 10, 1991. [Guidance, p. 2-2]

28. Permits and Permit Equivalency Processes for CERCLA On-Site Response Actions, February 19, 1992, OSWER Directive 9355.7-03.

29. Procedure for Planning and Implementing Off-Site Response Actions, Federal Register, Volume 50, Number 214, November 1985, pages 45933-45937.

30. Procedures for Completion and Deletion of NPL Sites, U.S. EPA, Office of Emergency and Remedial Response, April 1989, OSWER Directive No. 9320.2-3A.

31. Quality in the Constructed Project: A Guideline for Owners, Designers and Constructors, Volume 1, Preliminary Edition for Trial Use and Comment, American Society of Civil Engineers, May 1988.

32. Remedial Design and Remedial Action Handbook (Draft), U.S. EPA, Office of Emergency and Remedial Response, August 1993, OSWER Directive No. 9355.5-22.

33. Scoping the Remedial Design (Fact Sheet), May 1993, OSWER Publ. 9355-5-21 FS.

34. Standard Operating Safety Guides, U.S. EPA, Office of Emergency and Remedial Response, November 1984.

35. Standards for the Construction Industry, Code of Federal Regulations, Title 29, Part 1926, Occupational Health and Safety Administration.

36. Standards for General Industry, Code of Federal Regulations, Title 29, Part 1910, Occupational Health and Safety Administration.

37. Superfund Guidance on EPA Oversight of Remedial Designs and Remedial Actions Performed by Potentially Responsible Parties, April 1990, _____.

38. Superfund Remedial Design and Remedial Action Guidance, U.S. EPA, Office of Emergency and Remedial Response, June 1986, OSWER Directive No. 9355.0-4A.

39. Superfund Response Action Contracts (Fact Sheet), May 1993, OSWER Publ. 9242.2-08FS.

40. TLVs-Threshold Limit Values and Biological Exposure Indices for 1987-88, American Conference of Governmental Industrial Hygienists.

41. Treatability Studies Under CERCLA, Final. U.S. EPA, Office of Solid Waste and Emergency Response, EPA/540/R-92/071a, October 1992.

42. USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis, U.S. EPA, Office of Emergency and Remedial Response, July 1988.

43. USEPA Contract Laboratory Program Statement of Work for Organic Analysis, U.S. EPA, Office of Emergency and Remedial Response, February 1988.

44. User's Guide to the EPA Contract Laboratory Program, U.S. EPA, Sample Management Office, August 1982.

45. Value Engineering (Fact Sheet), U.S. EPA, Office of Solid Waste and Emergency Response, Publication 9355.5-03FS, May 1990.